

In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
<b>APPLICABLE STANDARD</b>									
RATING	OPERATING TEMPERATURES RANGE	-30°C TO 105°C (OPER)	STORAGE TEMPERATURE RANGE	-40°C TO +105°C					
VOLTAGE	250 V AC	CURRENT	3 A						
<b>SPECIFICATIONS</b>									
ITEM	TEST METHOD	REQUIREMENTS	QT	AT					
<b>CONSTRUCTION</b>									
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.							
MARKING	CONFIRMED VISUALLY.								
<b>ELECTRICAL CHARACTERISTICS</b>									
CONTACT RESISTANCE	1 A DC.	SIGNAL: 30 mΩ MAX, SHIELD: 60mΩ MAX							
CONTACT RESISTANCE	20 mV AC MAX, 0.1 mA (DC OR 1000 Hz)	SIGNAL: 30 mΩ MAX, SHIELD: 60mΩ MAX							
MILLIVOLT LEVEL METHOD									
INSULATION RESISTANCE	500 V DC	1000 MΩ MIN.							
VOLTAGE PROOF	650 V AC FOR 1 MIN	NO FLASHOVER OR BREAKDOWN.							
<b>MECHANICAL CHARACTERISTICS</b>									
CONTACT INSERTION AND EXTRACTION FORCES	8. 3×9. 0 BY STEEL GAUGE.	INSERTION FORCE 6. 5 N MAX. EXTRACTION FORCE 0. 1~6. 5 N MIN.							
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: SIGNAL: 30 mΩ MAX, SHIELD: 60mΩ MAX							
VIBRATION	FREQUENCY 20 TO 200 Hz, 43. 1 m/s <sup>2</sup> AT 3 h FOR 3 DIRECTIONS.	② NO DAMAGE, CRACK AND LOOSENESS OF ① NO ELECTRICAL DISCONTINUITY OF 10 μs.							
SHOCK	FREQUENCY 20 TO 50 Hz, 66. 6 m/s <sup>2</sup> AT 1 h	② CONTACT RESISTANCE: SIGNAL: 30 mΩ MAX, SHIELD: 60mΩ MAX							
LOCK STRENGTH	APPLYING A PULL FORCE THE MATING AXIALLY AT 98 N MAX.	③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. ① DURING APPLYING, MATING COMPLETELY. ② AFTER APPLYING, NO DEFECT OF MATING PARTS.							
<b>ENVIRONMENTAL CHARACTERISTICS</b>									
DAMP HEAT (STEADY STATE)	EXPOSED AT 60 °C, 90 TO 95 %, 500 h.	① CONTACT RESISTANCE: SIGNAL: 60 mΩ MAX, SHIELD: 120mΩ MAX							
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -40 → 5 TO 35 → 85 → 5 TO 35 °C TIME 30 → 5 → 30 → 5 MIN UNDER 1000 CYCLES.	② INSULATION RESISTANCE: 100MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. ① CONTACT RESISTANCE: SIGNAL: 60 mΩ MAX, SHIELD: 120mΩ MAX							
DRY HEAT	EXPOSED AT 105 °C, 300 h.	② NO DAMAGE, CRACK AND LOOSENESS OF PART. ③ CONTACT RESISTANCE: SIGNAL: 60 mΩ MAX, SHIELD: 120mΩ MAX							
COLD	EXPOSED AT -55 °C, 120 h.	② NO HEAVY CORROSION. ① CONTACT RESISTANCE: SIGNAL: 60 mΩ MAX, SHIELD: 120mΩ MAX							
CORROSION, SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 96 h.	② NO HEAVY CORROSION. ① CONTACT RESISTANCE: SIGNAL: 60 mΩ MAX, SHIELD: 120mΩ MAX							
RESISTANCE TO HSO <sup>3</sup> GAS	EXPOSED IN 500 PPM FOR 8 h.	② NO HEAVY CORROSION. ① CONTACT RESISTANCE: SIGNAL: 60 mΩ MAX, SHIELD: 120mΩ MAX							
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, 260 °C FOR IMMERSION, DURATION, 10 s.	② NO DEFORMATION IN CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. ① A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.							
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 230 °C FOR IMMERSION DURATION, 3 s.								
<b>REMARKS</b>									
NOTE1 INCLUDE THE TEMPERATURE RISING BY CURRENT.				DRAWN	DESIGNED	CHECKED	APPROVD	RELEASED	
NOTE2 APPLICABLE BOARD: 1.6±0. 2.				S. KURIYA	T. SHISHI	K. Aoto	K. Aoto		
NOTE3 OVER 500 CYCLES: 120mΩ MAX. (OUTER CONTACT ONLY)				06. 4. 14	KURA	06. 4. 18	06. 4. 18		
Note QT: Qualification Test AT: Assurance Test O: Applicable Test									
<b>HRS HIROSE ELECTRIC CO., LTD. SPECIFICATION SHEET</b>									
CODE NO. (OLD)	DRAWING NO.	PART NO.	CODE NO.						
	ELC4-165530-01	GT17VB-6DP-DS (70)	CL767-0032-2-70						
TO									

